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COMMERCIAL LOGISTICS APPLICATIONS SYSTEM (CLAS)

A Redirected Program to Accomplish the Original Objectives of the Logistics Integrated Management System (LIMS)

CLAS

What is it, and why do we need it?

Existing Situation

- ° Slow Response to Customer Requirements
- Labor Intensive
 - -- Error-prone Multiple Data Entry
 - -- Paper Volume
- Autonomous Data Base
- Marginal Management Information
- Difficult to Maintain and Enhance Software

GOALS

Develop System that:

- ° Responds to customer service requirements
- ° Supports and integrates logistical operations
- ° Enhances efficiency and effectiveness
- ° Provides timely and useful management information
- ° Adapts to changing requirements
- ° Interfaces to agency financial systems and processes

SCOPE

The system will address:

- ° Cataloging
- ° Requisitioning
- ° Procurement
- ° Receiving
- ° Inventory management
- ° Distribution
- Vendor payment
- ° Financial interfaces
- Management information

WHERE WE'VE BEEN

- 1978 -- Shortfalls of existing systems documented
- 1980 -- LIMS program formally established
- 1982 -- Quality Assurance (QA) contract awarded
- 1983 -- Development contract awarded
 - ° 13 Work Packages (WP) identified
 - Sequenced delivery of WPs beginning Jan 85 through Aug 91.
- April 1985 -- Decision to terminate development and QA contracts
 - Lack of progress
 - ° Cost growth
 - Change in Database Management System and New Terminal Selection
 - -- Loss of support for GIMS
 - -- Opportunity to use Packaged Software
- August 1985 -- Initial study of commercial packages completed
 - Management Science American (MSA) best functional fit
 - ° Redirection designated "CLAS"
- January 1986 -- Further Evaluation of MSA software endorsed
 - Technical evaluation of interface between MSA and Cullinet applications packages
 - Concurrent Functional evaluation

CLAS

Management Science America

Company Statistics

- ° Largest Independent Software Developer in World
- ° Headquartered Atlanta, Georgia
- ° \$140 million annual sales
- ° 1700 employees
- ° 17 years in business
- ° 10,000 packages installed
- Marketing focus on manufacturing and not-for-profit institutions

Software Compatibility

- ° Functions without Database Management System (DBMS) or with three largest DBMS, including Cullinet
- ° Until 1983, MSA was vendor of choice for Cullinet IDMS
- No known instances of interfacing MSA and Cullinet applications software
- o Majority of users have implemented MSA software with little or no modification

MSA Users

FBI
HUD
Federal Prison Industries
Washington Metropolitan Transit Authority (METRO)
George Washington University
Dupont
Black & Decker
TRW Industrial Products
Rockwell Industries

WHERE WE ARE TODAY

- OL/OIT/OF agree that further evaluation is desirable and necessary
- Evaluation to be conducted over next six months at unclassified site outside Agency premises
 - Agency lacks expertise to evaluate without hands-on experience
 - ° OIT lacks hardware/software environment until summer 1986
 - o TRW will provide facilities:
 - -- Office space
 - -- Computer facilities configured to what OIT will have in summer 1986
 - -- Cullinet IDMS/R
 - -- Estimated cost \$250K
 - TRW will provide technical support
 - -- Augment OIT technical evaluation team
 - -- Serve as database administrator
 - -- Estimated cost \$150K
 - MSA software purchased January 86
 - -- Supports supply, procurement, and payment functions -- Cost is \$300K
 - Agency owned Cullinet General Ledger package will be installed at TRW site
 - Target start date is mid-February 1986

PROGRAM ORGANIZATION

During initial evaluation phase, program will be organized as two independent, coordinated efforts.

OL will manage the functional evaluation process

- Three evaluation teams focusing on process
 - -- Inventory/Requisitioning/Distribution
 - -- Procurement
 - -- Vendors/ Payment/Financial Interface
- ° Each team comprised of

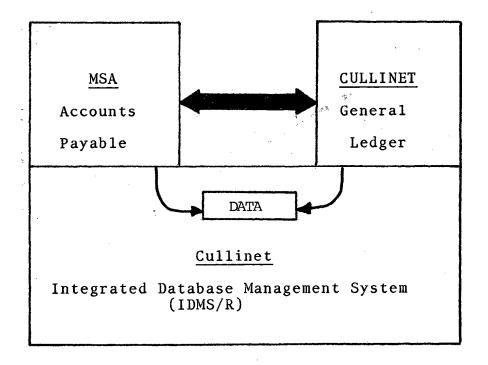
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- -- Three functional specialists
- -- Policy Consultant (GS-15, parttime)
- -- Data Processing Support (as needed)
- ° Separate exploitation team
 - -- Develop techniques to utilize data
 - -- Query and reports capabilities
 - -- Identify candidate requirements that appropriately can/should be done in local PC mode
 - -- Facilitate upload/download techniques
 - -- PC as a productivity tool

OIT will manage technical evaluation process

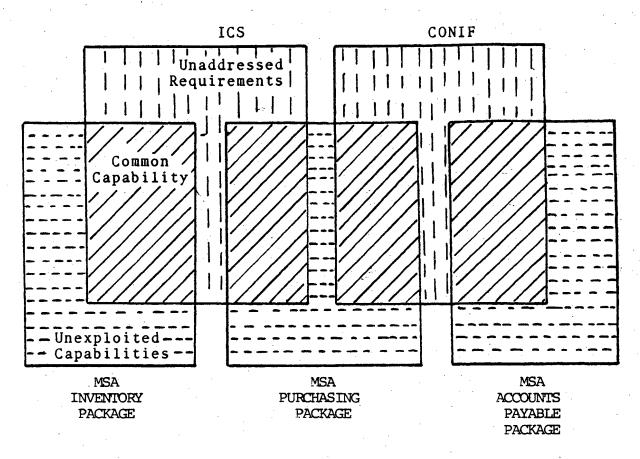
- ° Two analysts assigned to program
- ° Two analysts on loan from Corporate Data Program
- ° TRW contractors to augment staff

TECHNICAL EVALUATION APPROACH



- ONE MSA PACKAGE AND ONE CULLINET PACKAGE
- IF INTERFACE IS PROHIBITIVE, THEN OIT WILL RECOMMEND ALL-CULLINET SYSTEM

FUNCTIONAL EVALUATION APPROACH



- OETERMINE DEGREE TO WHICH PACKAGES MATCH CURRENT REQUIREMENTS, USING MODELING TECHNIQUES
- IDENTIFY UNEXPLOITED PACKAGE CAPABILITIES
- IDENTIFY REMAINING REQUIREMENTS AS BEING
 - FIRM
 - FLEXIBLE
 - DEFERABLE

WHERE WE ARE GOING

(TENTATIVE, AND ASSUMING EVALUATIONS ARE POSITIVE)

Phase I -- Feb - Jun 86

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Phase II -- Aug - Feb 87

- ° Evaluations
- ° Reassess Schedule
- Use <u>flexible</u> approach to <u>adapt</u> requirements to <u>fit</u> package capabilities
- Identify firm requirements requiring augmentation of package
- Identify firm requirements requiring modification of package
- Augment and modify packages using staff and contractor support
- ° Complete production mode1
- Identify interface requirements to financial systems
- Develop interfaces
- o Test and tune production model
- ° Parallel operations
- ° Conversion planning
- ° Training

PRODUCTION

Phase III -- Mar - Sep 87

Oct 87

C L A S

BUDGET REQUIREMENTS (thousands of dollars)

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FY	1986	
	Purchase Software Vendor Support Package Time Share Services Travel/Training-Project Team	400 100 468 100
	Total	1068
FY	1987	
	Maintenance/Licensing Software Modification Training Program-Users Travel/Training-Users Team Equipment-3270 Terminals	100 606 200 100 200
	Total	1206
FY	1988	
	Maintenance/Licensing Acquisition-New Packages Enhancements-Software Modification Equipment	100 200 250 450
	Total	1000
FY	1989	
	O&M plus Equipment	1000
FY	1990	
	O&M plus Equipment	1000
FY	1991	
	O&M	550

C L A S vs LIMS
PROGRAM BUDGET

	86	87	88	89	90	91	Total
LIMS	2468	2472	2652	2953	2283	503	13,331*
CLAS	1068	1206	1000	900	900	550	5,624
SAVINGS	1400	1266	1652	2053	1383	(47)	7,707

^{*} LIMS Budget FY 82 - FY 85 Totaled \$5846

LIMS Budget FY 82 - FY 91 Totaled \$19,177

STEPS TAKEN TO ENHANCE PROSPECTS FOR THE PROGRAM

Using Packaged Software

- ° Provides a standard for evaluating requirements
- Permits management to focus on functional issues instead of software development
- ° Cheaper to buy bulk of software than to develop it

Using an Iterative Modeling/Prototyping Approach to Defining Requirements

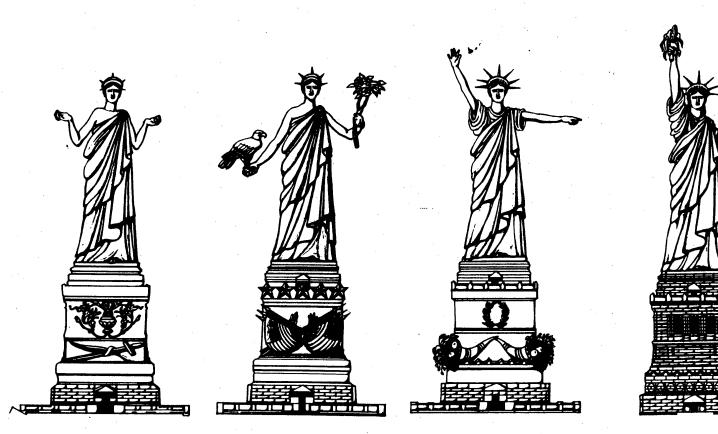
- ° Quick turnaround
 - -- IDENTIFY NEED, MODEL, EVALUATE, REFINE or APPROVE REQUIREMENT
- Steers away from pre-specification

Adapt to the Package

- Minimize modifications
 - -- Avoid current development, reduce maintenance
- Adopt flexible posture towards requirements

Govern Program by Top-Down Policy Considerations

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ITERATIVE DEVELOPMENT